(19) World Intellectual Property Organization International Bureau



- FOR DIE BEURREE IN DEELE BETOM HEER FERFEN OOR IN DIE BEURREE BEVON DE EEU DE BEVON DE BEVON DE BEVON DE BEV

(43) International Publication Date 10 January 2002 (10.01.2002)

PCT

(10) International Publication Number WO 02/02560 A3

(51) International Patent Classification⁷: A61K 31/522. C07D 473/04, 473/06, 473/08

(21) International Application Number: PCT/DK01/00467

(22) International Filing Date: 4 July 2001 (04.07.2001)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: PA 2000 01040 4 July 2000 (04.0

PA 2000 01040 4 July 2000 (04.07.2000) DK 60/223,240 4 July 2000 (04.07.2000) US

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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

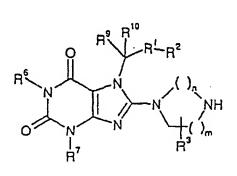
Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 25 April 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PURINE-2,6-DIONES WHICH ARE INHIBITORS OF THE ENZYME DIPEPTIDYL PEPTIDASE IV (DPP-IV)





(57) Abstract: The present invention relates to therapeutically active and selective inhibitors of the enzyme DPP-IV, pharmaceutical compositions comprising the compounds and the use of such compounds for and the manufacture of medicaments for treating diseases that are associated with proteins which are subject to inactivation by DPP-IV, such as type 2 diabetes and obesity, as well as methods for treating diseases that are associated with proteins which are subject to inactivation by DPP-IV, such as type 2 diabetes and obesity.

Intern ial Application No PCT/DK 01/00467

A. CLASSIFICATION OF SUBJECT MATTER
1PC 7 A61K31/522 C07D473/04 CO7D473/06 C07D473/08 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) C07D IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DUCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages 1,4-19, DATABASE STN INTERNATIONAL [Online] $P_{\bullet}X$ 21, 04-07-2000 - 04- 07-2001, 27-44. retrieved from FILE REGISTRY 46-54 XP002902159 see RN 335403-13-9, 333755-39-8, 333755-22-9, 333305-42-3, 333305-36-5, 333305-27-4, 333305-05-0, 332905-08-05, 332904-76-4, 332384-40-4, 332098-96-1, 331671-66-0, 331671-64-8, 329702-29-6, 318271-92-0, 313396-00-8, 313274-01-0, 313274-00-9,313230-36-3,304876-71-9,303972 -96-5,302777-00-0 abstract Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other, such docucitation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same parent family Date of mailing of the international search report Date of the actual completion of the international search 2 5. 02. 2007. 12 November 2001 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016 Nebil Gecer

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